

us-09-525-041-2.rni

11/2/04

Alignment Scores:	
Pred. No.:	9,48e-18
Score:	218.00
Percent Similarity:	50.11%
Best Local Similarity:	32.92%
Query Match:	24.83%
DB:	1
Length:	799
Matches:	53
Conservative:	28
Mismatches:	64
Indels:	16
Gaps:	7

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Oy 10 LeuLeuLeuSerGlyLeu---AlaIlyLeuIlyValLeu---IleProPhe 111
Db 79 ATGCTGCTTTCTGCTGCTCATGCTGCTGCTGCTGAGGTTCAAGGTGAAGAAACCCCAAGGAA 138
Oy 28 ---ProSer-----CysAlaProGlyIlyTrpPheTyrIleIlySerAsnGlyTyr 42
Db 139 CTGCGCTTCGCACGAGATCGGCTGCTCCCAAGGCTCCAAAGGCTCAAGGCTCAAGGCTCACTAT 198
Oy 43 GLyTyrTrpPheArgIlyLeuArgAsnTrpSerAspAlaGluLeuGluCysGlnSerTyrGly 62
Db 199 GCCTTGTTTGTTCACCAAAATCTCTGACAGATGACAGATCTGGCTGCGCAAGAGCGGCC 258
Oy 63 AsnGlyAlaIleLeuAlaSerIleLeuSerLeuIlyGluAlaSerThrIleAlaGlyTyr 82
Db 259 TCTGGG---AACCTGGTGCTCTGCTCAGTGGGGCTGAAGGATCTTGGCTGCTGCTGCT 315
Oy 83 IleSerGlyTyrGlnArgSerGlnPro---IleTrpIleGlyLeuIleAsnProGlnIly 101
Db 316 GTGAAGAGCATTGGTAAACAGTACTACTACAGTCTGGATTGGGCTTCATAGACCCCAACAG 375
Oy 102 ArgGlnGln-----TyrGlnTrpIleAspGlyAlaMetTyrLeuTyrArg 116
Db 376 GGCACCGAGCCCAATGACAGAAAGTTGGAGTGGAGGTACAGTACAGTGAATGAATTAATTCTT 435
Oy 117 SerTrp-----SerGlyIlySerMetGlyIlyValIlyValIlyCysValAlaMetSerSer 134
Db 436 GCATGGGAGAGAAATCTCTCCACATCTCAAGCCCGGCGCACTGTGGAGAGCTGTCCAGA 495
Oy 135 AsnAsnAsnPheLeuThrTyrPseSerSerAsnGluCysAsnIlyValSerGlnIlePheLeuCys 154
Db 496 AGCAGACGATTTCTGTAGGTGAAGATTAATACGTAAATGTAGAGTTACCTTAATGTCTGC 555
Oy 155 Lys 155
Db 556 AAA 558

```

**RESULT 12**  
US-08-632-261-6  
; Sequence 6, Application US/08822261  
; Patent No. 593813  
**GENERAL INFORMATION:**  
APPLICANT: Hillman, Jennifer L.  
ATTORNEY: Gail Stevens K.

ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0251 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166

TYPE:	nucleic acid
STRANDEDNESS:	single
TOPOLOGY:	linear
IMMEDIATE SOURCE:	
LIBRARY:	Genbank
CLONE:	189600
	35-08-822-261-6
Alignment Scores:	
Ref. No.:	9 48e-18
Score:	218.00
Percent Similarity:	50.91%
Local Similarity:	32.92%
Query Match:	24.63%
	2
Length:	796
Matches:	53
Mismatches:	28
Conservatives:	64
Indels:	16
Gaps:	7

US-09-525-041-2 (1-158) x US-08-822-261-6 (1-798)

10 LeuLeuLeuSerCysValu-----AlaValThrGlyValLeuAlaIspIleIleMetAla 138  
 79 ATGCTGCTTCTCTCTCCATGCTGCTGTCTCAGTTCAGAGTGAAAGAACCCACAGGGGAA 139  
 28 ---ProSer-----CysAlaProGlyThrPheThrHisIlySerAsnCysTyr 42  
 139 CTGCCCTTGCAAGGATCCGCTGTCTCCAAAGGCTTCAAGGCTTGGCTTCCATCTGAT 198  
 43 GlyTyrPheArgIlyValuArgAsnTrpSerAspAlaGluLeuGluCysGlnSerTyrGly 62  
 199 GCCTTGTCTTTTGTCAACAAATCTCGACAGATGTGAGATCTGGCTTCCAGAAAGGGCCC 258  
 63 AsnGlyAlaHisLeuAlaSerIleLeuSerLeuIysGluAlaSerThrIleAlaGlyTyr 82  
 259 TCTGGA---AACCTGGTCTGTGTCTCAGCTGGGGCTGAGAGGATCTCTGCTCTCTCTG 315  
 83 IleSerGlyTyrGlnArgSerGlnPro---IleTrpIleGlyLeuHisAspProGlnIly 101  
 316 GTGAAGAGCATTTGTAACAGCTACTCATACGTCTGGATTTGGGCTCCATGACCCACACAG 375  
 102 ArgGlnGln-----TrpGlnTrpIleAspGlyAlaMetCysIlyLeuTyrArg 116  
 376 GGACACGAGCCCAATGGAAGAAGTTGGAGAGTGAAGTGAAGTGAATGAAATTACTTT 435  
 SerGlyIlySerMetGlyAlaHisIlyHisCysAlaGlnMetSerSer 134

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Qy      102 ArgInGln-----TyrGlnTrrPleAspGlyAlaMetCtyrLeuTyrArg 118
Db      334 GGCACCGCAGCCCAATGCAGAGGTTGGAGCTGGAGTGCAGTGCATGTGATGAATTACTTT 359
Qy      117 SerTrr-----serGlySerMetGlyGlyAsnLysHisCysValaGluMetSerSer 134
Db      394 GCATGGGAGAGAAATCCCTCCACCACTTCACGCCCCGCGCCAGCTGGAGCCCTCTGCAGA 453
Qy      135 AsnAsnAsnAspHeuLeuThrTrrSerSerAsnGluCysAsnLysArgGlnHisPheLeuCys 154
Db      454 AGCACAGACGATTTCTGAGGTGGAAAGATTTAAGTCTAAATGTGGAGTTACCCCTATGCTCG 513
Qy      155 Lys 155
Db      514 AAA 516

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RESULT 10  
US-08-422

Sequence 4, Application US/0842216  
Patent No. 5959086  
GENERAL INFORMATION:  
APPLICANT: IOVANNA, JUAN-LUCIO  
APPLICANT: KEIM, VOLKER  
TITLE OF INVENTION: DAGORN, JEAN-CHARLES  
TITLE OF INVENTION: PROTEIN ASSOCIATED WITH ACUTE  
TITLE OF INVENTION: PANCREATITIS, AGENTS FOR THE DIAGNOSIS OF ACUTE  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: OBLOM, SPIVAK, MCCELLAND, MAIER & NEUSTADT,  
ADDRESSEE: P. C.  
STREET: 1755 Jefferson Davis Highway, Fourth Floor  
CITY: Arlington  
STATE: Virginia  
COUNTRY: U.S.A.  
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/422,166  
 FILING DATE: 14-APR-1995  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION:

PRIOK APPLICATION DATA:

INFORMATION NUMBER: US 07/778,156  
 FILING DATE: 19-DEC-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Obion, No. 5959086man F.  
 REGISTRATION NUMBER: 24,618  
 REFERENCE/DOCKET NUMBER: 354-012-0  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (703)521-4500  
 TELEFAX: (703)486-2347  
 TEXT: 248855 OPAT UR  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 522 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: unknown  
 TOPOLOGY: unknown  
 MOLECULE TYPE: cDNA  
 ORIGINAL SOURCE:  
 ORGANISM: Homo sapiens  
 TISSUE TYPE: pancreas

**Alignment Scores:**

FILED. NO.:  
SCORE:  
Percent Similarity:

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5.02e-18      Length: 522
218.00        Matches: 53
50.31%        Conservative: 28
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Best Local Similarity:	32.92%	Mismatches:	64
Query Match:	24.83%	Indels:	16
DB:	2	Gaps:	7
US-09-525-041-2 (1-158)	x	US-08-422-166-4 (1-522)	

08-08-422-166-4 (1-522)

Gaps: 7

Indels: 16

Mismatches: 64

10 LeuLeuLeuSerCysLeu---AlaLeuThrGlyValLeuGlyAspIleIleMetArg--- 27  
 37 ArgCTGCTTCTCTCCCTTCACAGCTGCTGCTCTCTCAGGTTCAGTGAAGAACCCACAGGGAA 96  
 28 ---ProSer-----CysAlaProGlyThrPheThyTrhIleSlySerAsnCysTyr 42  
 97 CTGCGCTCTGCACGAGATCCGCTGTCCCAAGGCTCCAAAGCCATATAGCTCTCCACGTCTAT 15  
 43 GlyTyrPheArgGlybLeuAlaGlnTTPSerAspAlaGluLeuGluCysGlnSerTyrGly 62  
 157 GCCTTGTTGTTTGTACCAAAATCTCTGACAGATGACAGATGTGGCTGCCCAAGCGGCC 216  
 63 AsnGlyAlaIhIleuAlaSerIleLeuSerLeuGlyGluAlaSerThrIleAlaGluTyr 82  
 217 TCTGGA---ACCTGGTGTCTGTGCTCAAGTGGGGCTGAGAGGATCTTCGTGCTCTCCCTG 273  
 83 IleSerGlyTyrGlnArgSerGlnPro---IleTrrIleGlyLeuIhIAspProGlnIlyb 101  
 274 GTGAAGAGCATTTGTAACTACGTACTCATACGTCTGGAATTGGGCTCCATACCCACACAG 333  
 102 ArgGlnGln-----TrpGlnTrrIleAspGlyAlaMetTyrIleuTyrArg 116  
 334 GGCACCGAGCCCAATGAGAAAGCTTTGGAGGTGAGACTACAGATGATGTGAATTAATCTT 393  
 117 SerTrr-----SerGlyLybSerMetGlyGlyAlaSerIlybSHIAsyAlaGluMetSerSer 134  
 394 GCATGTGGAGAGAAATTCCTCCACCATCTCAAGCCCCCGGCGCTGTGGCAGGCTTCCGGA 453  
 135 AsnAsnAsnPheLeuThrTrrPrrSerSerAsnGluCysAsnIlybArgGlnIhIlePheLeuCys 154  
 454 AGCACACACATTTCTGAGGTGGAAGAAGATTATTAAGTATATGTAGAGGTTAACCTATGTCTGC 513  
 155 Lys 155  
 514 AAA 516

F1 36169

## RESULT 11

US-07-178-156-12  
Sequence 12, Application US/07778156  
Patent No. 5436169  
GENERAL INFORMATION:  
ADDITIONAL INFORMATION:

## GENERAL INFORMATION

APPLICANT: IOVANNA, JUAN-LUCIO  
APPLICANT: KEIM, VOLKER  
TITLE OF INVENTION: PROTEIN ASSOCIATED WITH ACUTE  
TITLE OF INVENTION: PANCREATITIS, AGENTS FOR THE DIAGNOSIS OF ACUTE  
TITLE OF INVENTION: PANCREATITIS  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,  
ADDRESSSEE: P. C.  
STREET: 1755 Jefferson Davis Highway, Fourth Floor  
CITY: Arlington  
STATE: Virginia  
COUNTRY: U.S.A.  
ZIP: 22202

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/778,156  
FILING DATE: 19911219  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: O'Brien, No. 5436169man F.

L3 ANSWER 58 OF 59 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 4  
AN 1993:432762 BIOSIS  
DN PREV199396087387  
TI A gene homologous to the **reg** gene is  
**expressed** in the human pancreas.  
AU Bartoli, Catherine; Gharib, Bouchra; Giorgi, Dominique; Sansonetti, Alice;  
Dagorn, Jean-Charles; Berge-LeFranc, Jean-Louis [Reprint author]  
CS Unite 315 l'INSERM, 46 Boulevard Gaye, 13258 Marseille Cedex 9, France  
SO FEBS (Federation of European Biochemical Societies) Letters, (1993) Vol.  
327, No. 3, pp. 289-293.  
CODEN: FEBLAL. ISSN: 0014-5793.  
DT Article  
LA English  
OS Genbank-L08010  
ED Entered STN: 22 Sep 1993  
Last Updated on STN: 6 Nov 1993  
AB We have determined the nucleotide sequence of **reg1** a human  
genomic DNA fragment homologous to the **reg** gene which is  
**expressed** in the exocrine pancreas and regenerating islets.  
Sequence comparisons of **reg** and **reg1** suggested similar  
exon-intron organisation. Based on this assumption, specific  
oligonucleotides for **reg1** exons were used to demonstrate expression of the  
**reg1** gene in pancreas and liver, The proteins encoded by **reg** and  
**reg1** comprise 166 amino acids and differ by 22 amino acids only.

Query Match	27.3%	Score 240	DB 1	Length 166
Best Local Similarity	34.3%	Pred. No. 4.2e-17		
Matches 46	Conservative 27	Mismatches 57	Indels 4	Gaps 4

27 RPSCADGMEYHKNSCYGFRKLRNMSDALECGSYNGAGHAIASLISKEASTIAEYISGY 86

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Db      92 STDSNMVIGLHDPKQRRMHWSSGSLVSYKSWDTGSPSSANNAGYASLTSCGFKXMD 151
QY      144 NECNROHFLCKYR 157
Db      152 ESCEKXKFSFVCKFK 165

RESULT 7
LIT2 MOUSE
ID      LIT2 MOUSE      STANDARD;      PRT;      173 AA.
AC      008731;
DT      01-NOV-1995 (Rel. 32, Created)
DT      01-NOV-1995 (Rel. 32, Last sequence update)
DT      28-FEB-2003 (Rel. 41, Last annotation update)
DE      Lithostathine 2 precursor (Pancreatic stone protein 2) (PSP)
DE      (Pancreatic thread protein 2) (PTP) (Islet of Langerhans regenerating
DE      protein 2) (REG 2).
GN      REG2.
OS      Mus musculus (Mouse).
OC      Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX      NCBI_TaxID=10090;
RN      [1]
RP      SEQUENCE FROM N.A.
RC      STRAIN=C57BL/6J; PubMed=83340418;
RX      MEDLINE=93340209;
RA      Umoto M., Yonekura H., Nakagawa K.-I., Watanabe T., Miyashita H.,
RA      Morizumi S., Okamoto H., Itoh T., Teraoka H.;
RT      "Structure, chromosomal localization, and expression of mouse reg
RT      genes, reg I and reg II. A novel type of reg gene, reg II, exists in
RT      the mouse genome."
RL      J. Biol. Chem. 268:15974-15982(1993).
CC      -I- FUNCTION: MIGHT ACT AS AN INHIBITOR OF SPONTANEOUS CALCIUM
CC      CARBONATE PRECIPITATION.
CC      -I- TISSUE SPECIFICITY: EXPRESSED ONLY IN REGENERATING ISLETS AND
CC      NORMAL EXOCRINE PANCREAS, BUT NOT IN NORMAL PANCREATIC ISLETS.
CC      EXPRESSED STRONGLY IN PANCREAS, WEAKLY IN LIVER, BUT NOT AT ALL
CC      IN GALLBLADDER.
CC      -I- SIMILARITY: Contains 1 C-type lectin family domain.
CC      -----
CC      This SWISS-PROT entry is copyright. It is produced through a collaboration
CC      between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC      the European Bioinformatics Institute. There are no restrictions on its
CC      use by non-profit institutions as long as its content is in no way
CC      modified and this statement is not removed. Usage by and for commercial
CC      entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC      or send an email to a license@isb-sib.ch).
CC      -----
DR      EMBL, D14011; BAA03112.1; -
DR      PIR, B47148; B47148.
DR      HSSP, P05451; 1LIT.
DR      MGD, MGI:97896; Reg2.
DR      InterPro: IPR002353; AntifreezeII.
DR      InterPro: IPR001304; Lectin C.
DR      InterPro: IPR003990; Pancreatic_ac.
DR      Pfam: PF00059; Lectin C; 1.
DR      PRINTS, PRO1504; PNCREATTISAP.
DR      PRINTS, PRO0356; ANTIFREEZEII.
DR      SMART, SM00034; CLECT; 1.
DR      PROSITE, PSS00615; C_TYPE_LLECTIN_1; 1.
DR      PROSITE, PSS0041; C_TYPE_LLECTIN_2; 1.
KW      Signal, Lectin.
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